

In re: Won *et al.*
Serial No. 10/665,093
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REMARKS

Applicants appreciate the Office Action of October 1, 2004. Applicants have amended the Specification as set out above and request that the objections with respect to the specification be withdrawn. Applicants have amended independent Claims 1 and 8 as set out above and submit that the Amended Independent Claims 1 and 8 and the claims that depend therefrom are in condition for allowance for at least the reasons discussed herein. Claim 9 has been canceled from the present application. Applicants have also added new Claims 10 through 15, corresponding to original Claims 2-7, to the present application. Accordingly, the pending claims are in condition for allowance, which is respectfully requested in due course.

Objections to the Specification

Applicants have amended the "Related Application" section to include reference to United States Patent No. 6,653,186 as suggested in the Office Action. Furthermore, Applicants have amended the specification as set out above to replace the "D" with "A". Accordingly, Applicants respectfully request that the rejections with respect to the specification be withdrawn.

The Section 102 Rejections

A. Claim 9 stands rejected under 35 U.S.C. § 102(e) as being anticipated by United States Patent No. 6,573,553 to Nakamura (hereinafter "Nakamura"). Applicants have canceled Claim 9 from the present application and, therefore, submit that the objections with respect to Claim 9 have been obviated.

B. Claims 1, 2, 5 and 7-9 stand rejected under 35 U.S.C. § 102(b) as being anticipated by United States Patent No. 5,023,683 to Yamada (hereinafter "Yamada"). Applicants respectfully submit that many of the recitations of these claims are neither disclosed nor suggested by Yamada. For example, Amended Claim 1 recites:

An integrated circuit capacitor, comprising:
an electrically insulating electrode support layer having an opening therein, on
an integrated circuit substrate;

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a U-shaped lower electrode in the opening;
a first capacitor dielectric layer extending on an inner surface and outer portion of the U-shaped lower electrode;
a second capacitor dielectric layer extending between the outer portion of the U-shaped lower electrode and the first capacitor dielectric and also extending between the outer portion of the U-shaped lower electrode and an inner sidewall of the opening and directly contacting a surface of the first capacitor dielectric layer opposite the U-shaped lower electrode; and
an upper electrode on the first capacitor dielectric layer.

Claim 8 contains similar recitations to the highlighted recitations. Applicants respectfully submit that at least the highlighted recitations are neither disclosed nor suggested by Yamada for at least the reasons discussed herein.

The Office Action points to Figures 1A through 1C as teaching the recitations of Claim 1. See Office Action, page 3. As illustrated in Figure 1C, the storage node electrode 10a is an "M" shape storage electrode and the insulating film 9a extends into the arches of the "M". Thus, the insulating film 9a is completely shielded from the capacitor insulating film 11a by the storage node electrode 10a. In contrast, Claim 1 recites that the second capacitor dielectric layer directly contacts a surface of the first capacitor dielectric opposite the U-shaped lower electrode. Nothing in the cited reference discloses or suggests having the second capacitor dielectric layer directly contacting a surface of the first capacitor dielectric layer opposite the U-shaped lower electrode as recited in Amended Claim 1.

Accordingly, Amended independent Claims 1 and 8 are patentable over Yamada for at least the reasons discussed herein. Furthermore, the dependent claims are patentable at least per the patentability of the independent base claims from which they depend.

CONCLUSION

Applicant submits that Claims 1-8 and 10-15 are in condition for allowance for at least the reasons discussed above. Favorable reconsideration of this application is respectfully requested. If, in the opinion of the Examiner, a telephonic conference would expedite the examination of this matter, the Examiner is invited to call the undersigned attorney at (919) 854-1400.

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attorney at (919) 854-1400.

Respectfully Submitted,

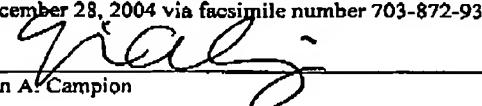


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I hereby certify that this correspondence is being transmitted by facsimile to the U.S. Patent and Trademark Office on December 28, 2004 via facsimile number 703-872-9306.


Erin A. Campion